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OPERATION PRIORITIZATION AND SELECTION IN A
PROBABILITY-BASED JOB SCHEDULER

Adi Ofer et al.
EMC-024AUS

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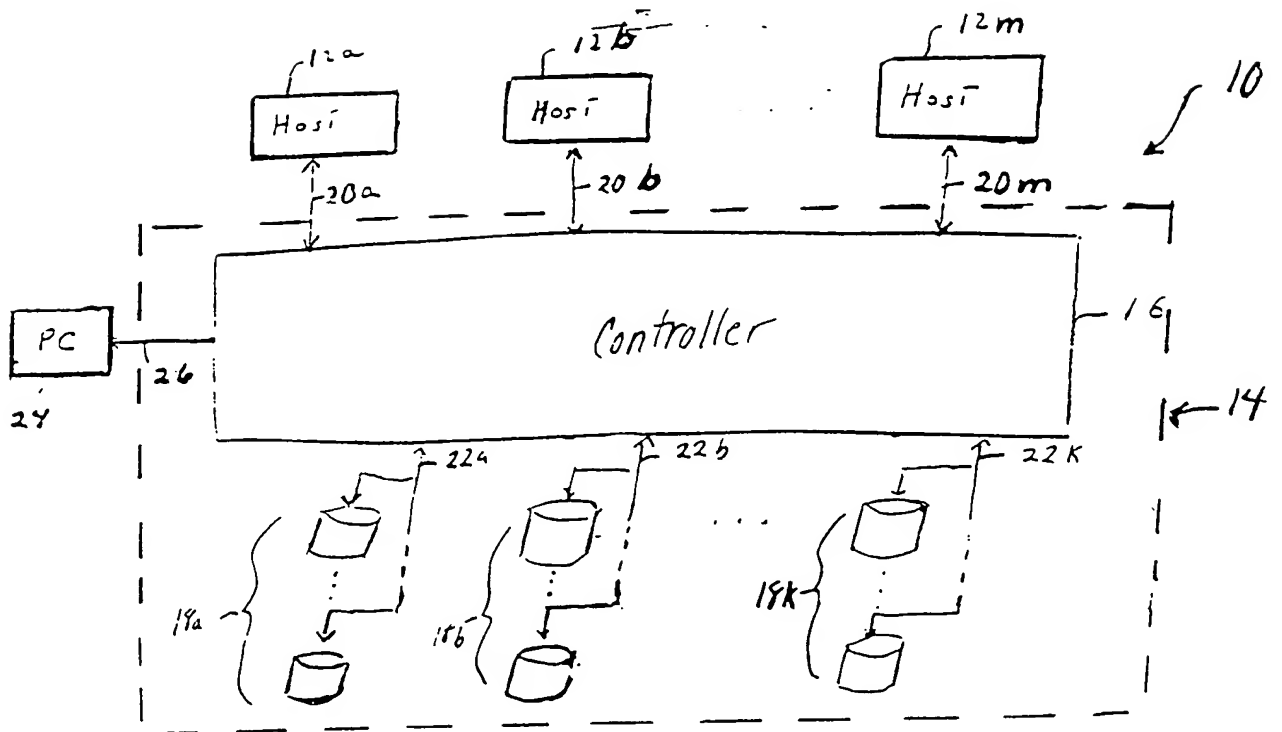


FIG. 1

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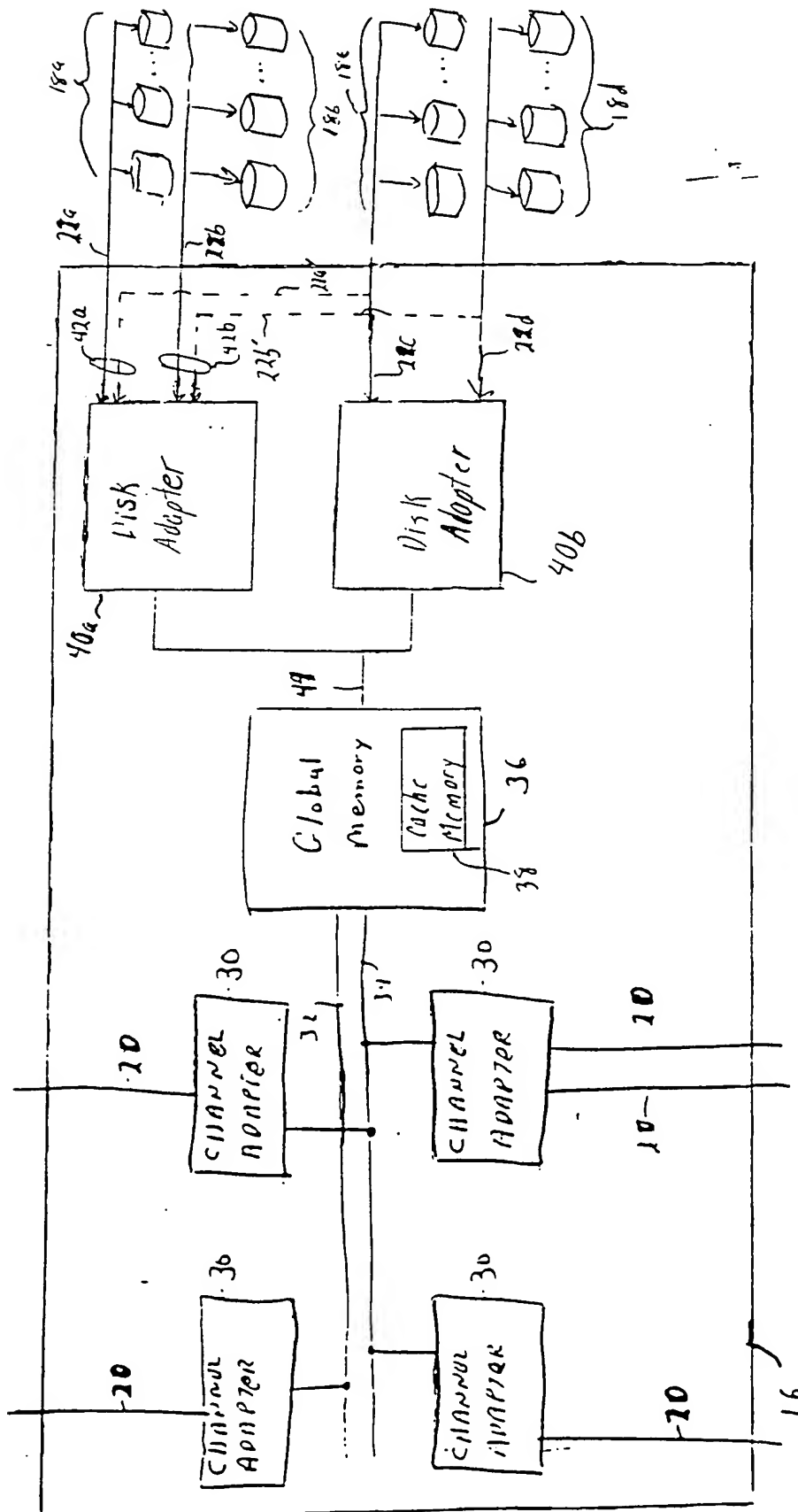


FIG. 2

OPERATION PRIORITIZATION AND SELECTION IN A
PROBABILITY-BASED JOB SCHEDULER

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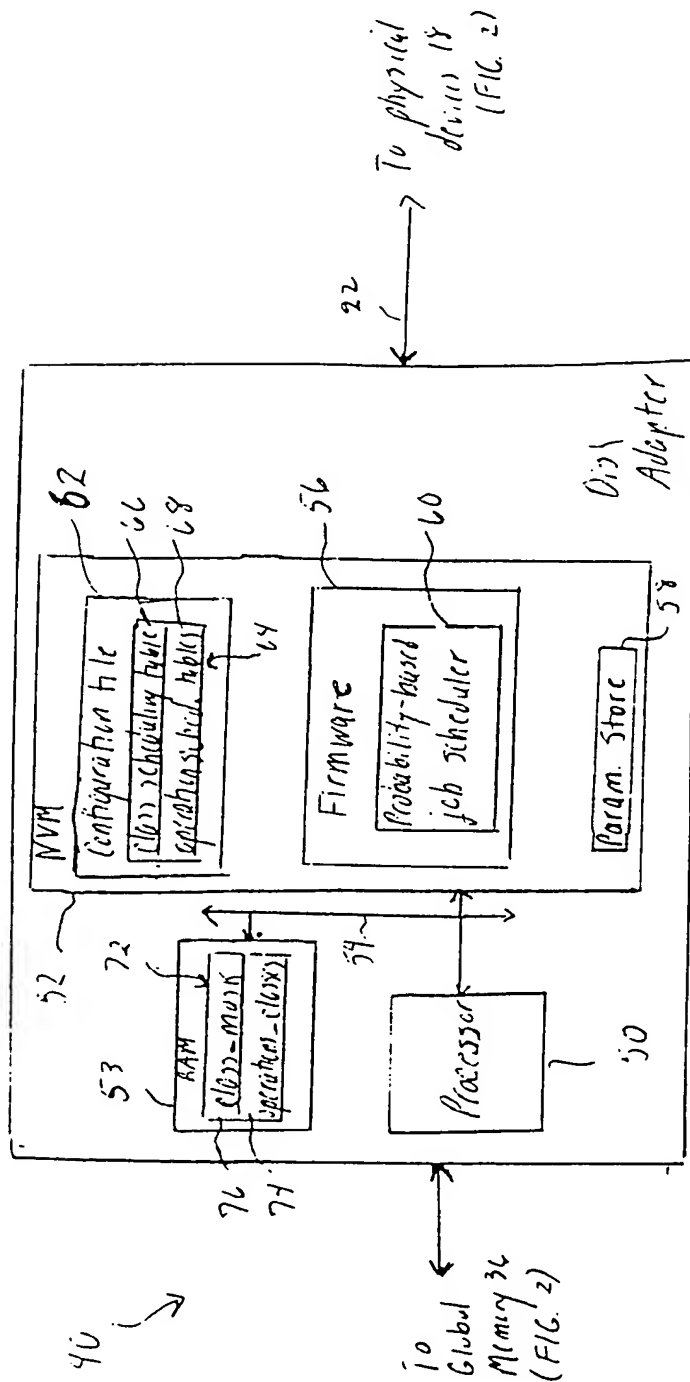


FIG. 3

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PROBABILITY-BASED JOB SCHEDULER

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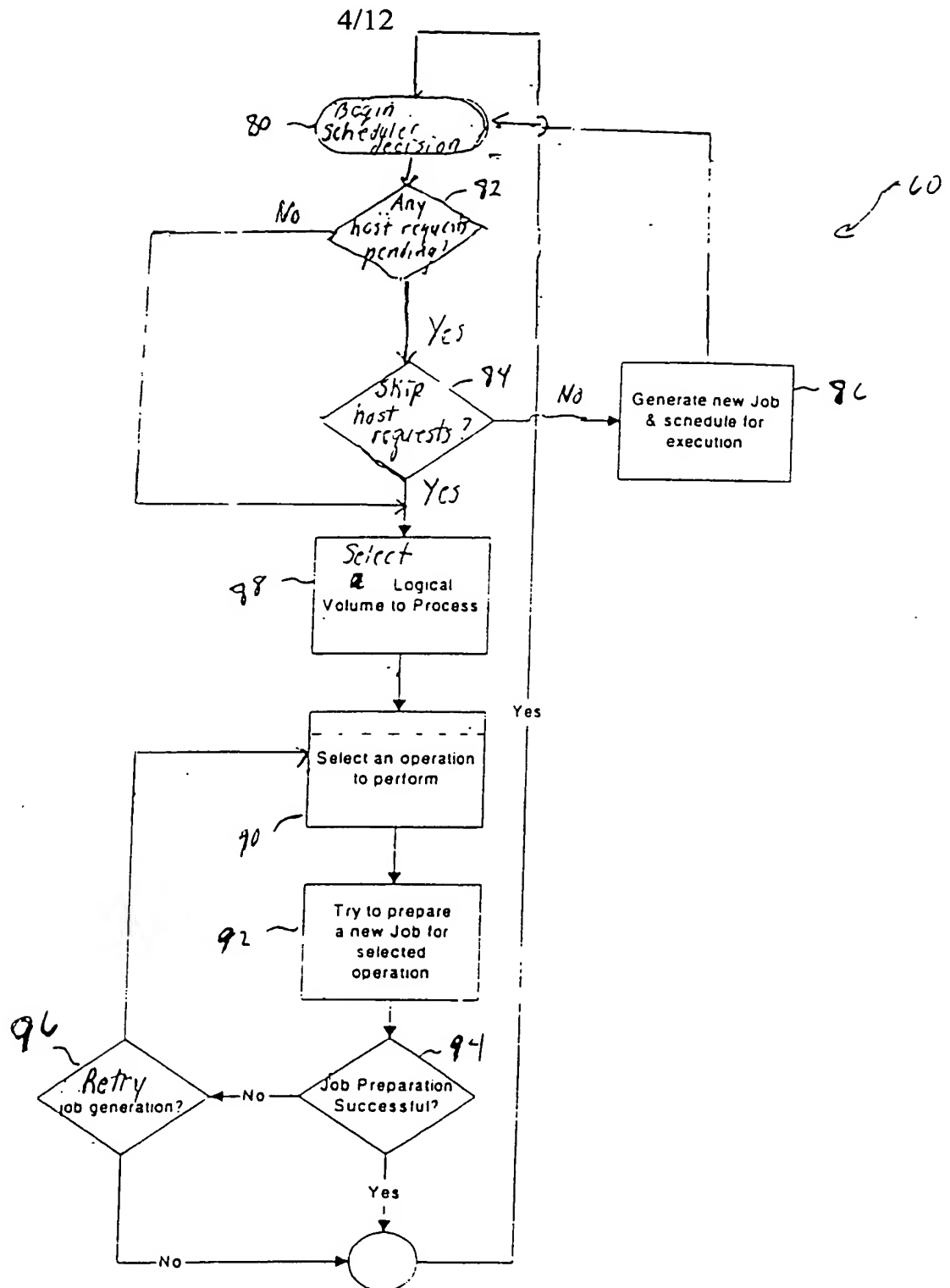


FIG. 4

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PROBABILITY-BASED JOB SCHEDULER

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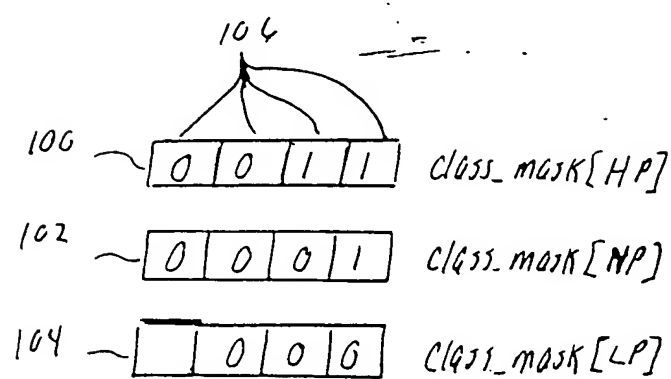


FIG. 5

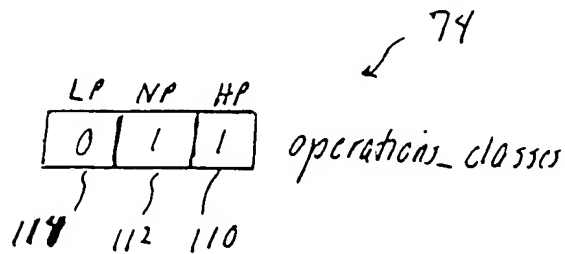


FIG. 6

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FIG. 7

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PROBABILITY-BASED JOB SCHEDULER

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<i>Classes Pending</i>	<i>Percentages</i>
None	100% None
HP	100% HP
NP	100% NP
HP and NP	80% HP, 20% NP
LP	100% LP
HP and LP	95% HP, 5% NP
NP and LP	75% NP, 25% LP
HP, NP and LP	75% HP, 20% NP, 5% LP

FIG. 8

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PROBABILITY-BASED JOB SCHEDULER

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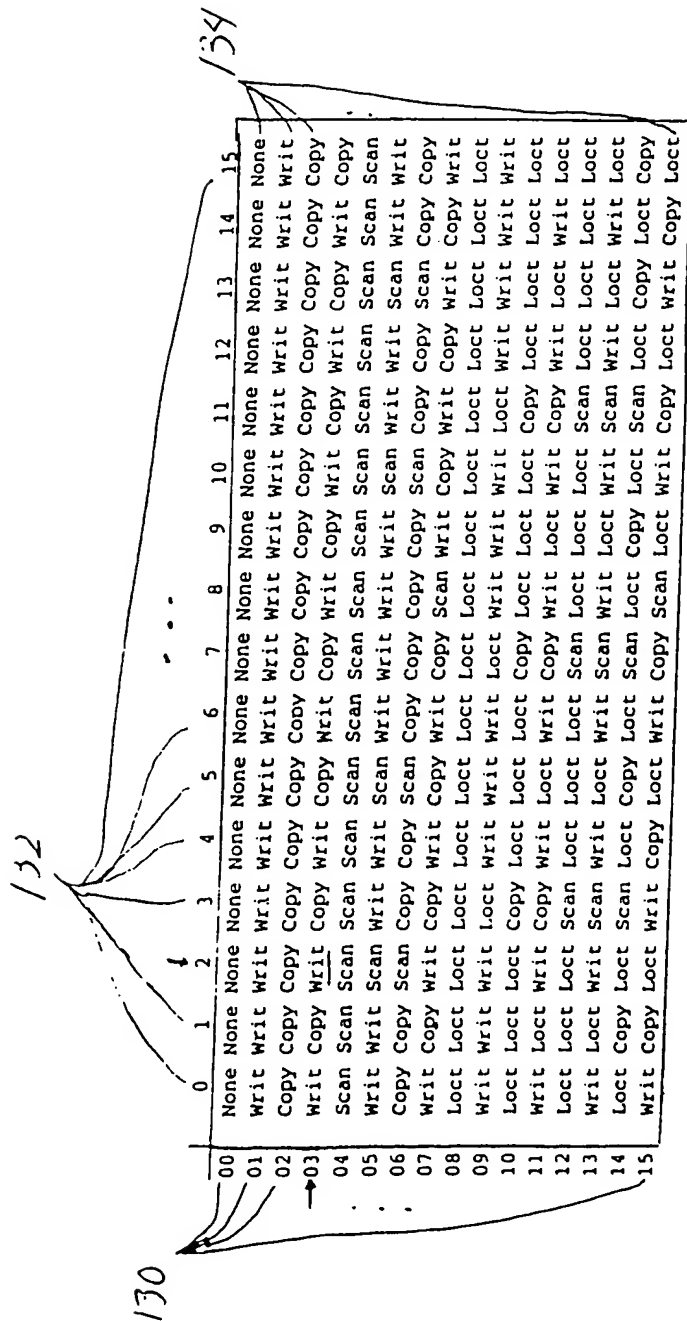


FIG. 9

OPERATION PRIORITIZATION AND SELECTION IN A
PROBABILITY-BASED JOB SCHEDULER

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<i>Operations Pending</i>	<i>Percentages</i>
None	100% None
Writes	100% Writes
Copies	100% Copies
Writes and Copies	50% Writes, 50% Copies
Scans	100% Scans
Writes and Scans	75% Writes, 25% Scans
Copies and Scans	75% Copies, 25% Scans
Writes, Copies and Scans	45% Writes, 45% Copies, 10% Scans
Locates	100% Locates
Locates and Writes	80% Writes, 20% Locates
Locates and Copies	80% Locates, 20% Copies
Locates, Writes and Copies	50% Writes, 30% Locates, 20% Copies
Locates and Scans	80% Locates, 20% Scans
Locates, Writes and Scans	50% Writes, 30% Locates, 20% Scans
Locates, Copies and Scans	50% Locates, 30% Copies, 20% Scans
Locates, Writes, Copies and Scans	30% Writes, 30% Copies, 30% Locates, 10% Scans

FIG. 10

OPERATION PRIORITIZATION AND SELECTION IN A
PROBABILITY-BASED JOB SCHEDULER

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<i>Classes Pending</i>	<i>Percentages</i>
None	100% None
Scrub	100% Scrub
Task5	100% Task5
Scrub and Task5	80% Task5, 20% Scrub
Scan	100% Scan
Scrub and Scan	80% Scan, 20% Scrub
Scan and Task5	50% Scan, 50% Task5
Scrub, Task5 and Scan	10% Scrub, 45% Task 5, 45% Scan

FIG. 11

OPERATION PRIORITIZATION AND SELECTION IN A
PROBABILITY-BASED JOB SCHEDULER

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<i>Operations Pending</i>	<i>Percentages</i>
None	100% None.
Writes	100% Writes
Copies	100% Copies
Writes and Copies	50% Writes, 50% Copies
Scans	100% Scans
Writes and Scans	75% Writes, 25% Scans
Copies and Scans	75% Copies, 25% Scans
Writes, Copies and Scans	45% Writes, 45% Copies, 10% Scans
Prefetches	100% Prefetches
Prefetches and Writes	20% Writes, 80% Prefetches
Prefetches and Copies	80% Prefetches, 20% Copies
Prefetches, Writes and Copies	30% Writes, 50% Prefetches, 20% Copies
Prefetches and Scans	80% Prefetches, 20% Scans
Prefetches, Writes and Scans	30% Writes, 50% Prefetches, 20% Scans
Prefetches, Copies and Scans	50% Prefetches, 30% Copies, 20% Scans
Prefetches, Writes, Copies and Scans	40% Prefetches, 25% Writes, 25% Copies, 10% Scans
RAID-S	100% RAID-S
RAID-S, Writes	50% RAID-S, 50% Writes
RAID-S, Copies	50% RAID-S, 50% Copies
RAID-S, Writes and Copies	34% RAID-S, 33% Writes, 33% Copies
RAID-S, Scans	80% RAID-S, 20% Scans
RAID-S, Writes and Scans	40% RAID-S, 40% Writes, 20% Scans
RAID-S, Copies and Scans	40% RAID-S, 40% Copies, 20% Scans
RAID-S, Writes, Copies and Scans	30% RAID-S, 30% Writes, 30% Copies, 10% Scans
RAID-S, Prefetches	40% RAID-S, 60% Prefetches
RAID-S, Prefetches and Writes	25% RAID-S, 25% Writes, 50% Prefetches
RAID-S, Prefetches and Copies	25% RAID-S, 50% Prefetches, 25% Copies
RAID-S, Prefetches, Writes and Copies	20% RAID-S, 20% Writes, 40% Prefetches, 20% Copies
RAID-S, Prefetches and Scans	30% RAID-S, 50% Prefetches, 20% Scans
RAID-S, Prefetches, Writes and Scans	25% RAID-S, 25% Writes, 40% Prefetches, 10% Scans
RAID-S, Prefetches, Copies and Scans	25% RAID-S, 40% Prefetches, 25% Copies, 10% Scans
RAID-S, Prefetches, Writes, Copies and Scans	20% RAID-S, 30% Prefetches, 20% Writes, 20% Copies, 10% Scans

FIG. 12

OPERATION PRIORITIZATION AND SELECTION IN A
PROBABILITY-BASED JOB SCHEDULER

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